

### **AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions and listings of all claims in the application.

#### **Listing of Claims**

43. Claims 43-56 (**Canceled**)

57. (**Currently Amended**) A method of determining the ~~identification of a nucleotide at a detection position in a target sequence~~ the genotype of an individual comprising:

- a) Providing a target sequence from said individual;
- b) providing an electrode comprising ~~a covalently attached~~ capture probes, wherein each capture probe has [[with]] a sequence substantially complementary to a first domain of said target sequence;
- c) providing a first label probe comprising a first base at an interrogation position and a first ETM with a first redox potential;
- d) providing a second label probe comprising a second base at an interrogation position and a second ETM with a second redox potential;
- e) forming [[a]] hybridization complexes, wherein each, independently of the others, comprises ~~comprising~~ said target sequence, ~~at least one of~~ said label probes, and said capture probe; and
- f) determining the genotype of an individual ~~nucleotide at said detection position by detecting said ETMs.~~

58. (New) The method of Claim 57 wherein said method further comprises providing a third label probe comprising a third base at an interrogation position and a third ETM with a third redox potential.

59. (New) The method of Claim 58 wherein said method further comprises providing a fourth label probe comprising a fourth base at an interrogation position and a fourth ETM with a fourth redox potential.